Contents

Letters to the Editor

Observation of the H $\scriptstyle\rm II$ galaxy giving origin to the z = 0.3930 absorption system of the QSO 1209 + 107 <i>Cristiani</i> , S .	L1	Absolute dimensions of eclipsing binaries. XII. TZ Mensae Andersen, J., Clausen, J.V., Nordström, B.	60
Detection of a heavy radical in IRC+10216: The hexatriynyl radical C ₆ H? Guélin, M., Cernicharo, J., Kahane, C., Gomez-Gonzalez, J., Walmsley, C.M.	L5	Search for optical bursts from gamma-ray bursters. I Hudec, R., Borovička, J., Wenzel, W., Atteia, JL., Barat, C., Hurley, K., Niel, M., Vedrenne, G., Evans, W.D., Fenimore, E.E., Klebesadel, R.W.,	00
EXO 023432-5232.3: a new 114-minute probable AM-Herculis-type binary Beuermann, K., Thomas, H.C., Giommi, P.,		Laros, J.G., Cline, T., Desai, U., Teegarden, B., Estulin, I., Zenchenko, V., Kuznetsov, A., Kurt, V. Forced oscillations in a rotating star: low frequency gravity	71
Tagliaferri, G. A new pulsating DA white dwarf: PG 2303+243	L9	modes Rocca, A.	81
Vauclair, G., Chevreton, M., Dolez, N.	L13	The influence of O- and B-stars on star birth rate	
Extragalactic astronomy		Nepveu, M.	91
Deprojection of the de Vaucouleurs $r^{1/4}$ brightness profile <i>Mellier</i> , Y., Mathez, G.	1	Stellar evolution with turbulent diffusion mixing. VI. The solar model, surface ⁷ Li and ³ He abundances, solar neutrinos and oscillations	
The distribution of H _I in the lenticular galaxy NGC 2787 Shostak, G.S.	4	Lebreton, Y., Maeder, A.	99
Alignments of galaxies in the Perseus supercluster Vettolani, G., Baiesi Pillastrini, G.C.	9	The viscosity-surface density relation and implications for the early rise of dwarf novae outbursts Meyer-Hofmeister, E.	113
Star formation in nuclei of S0/E galaxies Rocca-Volmerange, B., Guiderdoni, B.	15	Multiple close frequencies of the Delta Scuti star θ^2 Tau	113
Late-type galaxies. The shapes of the spiral arm filaments (Text in German)		Breger, M., Huang Lin, Jiang Shi-yang, Guo Zi-he, Antonello, E., Mantegazza, L.	117
Isserstedt, J., Schindler, R.	23	Influence of the perturbation of the Reynold tensor on the stability of the solar 5-minute oscillations	
Determination of the radii of Cepheids. IV. Dimensions of HV 879, HV 899, HV 909, HV 2257, HV 2338, HV 2827		Gabriel, M.	125
and the distance of the Large Magellanic Cloud (Text in French)		Contribution to the study of F, G, K, M binaries. IV. Orbital elements of the spectroscopic binary HD 23838 (Text	
Imbert, M.	30	in French) Pédoussaut, A., Carquillat, J.M., Ginestet, N.	136
The central X-ray source in M 33 Gottwald, M., Pietsch, W., Hasinger, G.	45		150
Galactic structure and dynamics		High-energy gamma-ray and hard X-ray observations of Cyg X-3	
The influence of massive molecular clouds in the evolution of the velocity dispersion of stars in the galactic disk		Hermsen, W., Bennett, K., Bloemen, J.B.G.M., Buccheri, R., Jansen, F.A., Mastichiadis, A., Mayer- Hasselwander, H.A., Özel, M.E., Pollock, A.M.T.,	
Semenzato, R.	50	Strong, A.W.	141
Stellar clusters and associations		Erratum: Absolute dimensions of eclipsing binaries. III.	
A population of faint blue stars in a southern external part of the Large Magellanic Cloud	54	KW Hydrae: a detached Am system with unequal components Andersen, J., Vaz, L.P.R.	355
Pierre, M.	34	Anucisca, J., Vuz, L.I.A.	333

Formation, structure and evolution of stars

tion for WC stars van der Hucht, K.A., Cassinelli, J.P., Williams, P.M.	356	Benz, A.O., Fürst, E.	282
		The solar system	
Stellar atmospheres		Localization of Io and non-Io sources of Jovian decameter	
The ultraviolet spectrum of the peculiar emission-line star GG Carinae		emission Boischot, A., Sastri, J.H., Zarka, P.	287
Brandi, E., Gosset, E., Swings, JP. SiO maser emission in evolved stars: relation to IR conti-	151	Interpretation of F-corona radial velocity observations Shestakova, L.I.	289
Bujarrabal, V., Planesas, P., del Romero, A.	164	Celestial mechanics and astrometry	
White dwarfs with metallic line spectra Liebert, J., Wehrse, R., Green, R.F.	173	Three characteristic orbital parameters for the Trojan	
Radio outbursts in HR 1099: quantitative analysis of flux spectrum and intensity distribution		group of asteroids Bien, R., Schubart, J.	292
Klein, KL., Chiuderi-Drago, F.	179	Trojan asteroids: relations between dynamical parameters Schubart, J., Bien, R.	299
Diffuse matter in space (including HII regions and planetary nebulae)		Computation of the first and second derivatives of the Lagrange equations by harmonic analysis (Text in French) Simon, JL.	303
Extinction curves and intrinsic colours in local and distant OB complexes	106		
Kretowski, J., Strobel, A.	186	Physical and chemical processes	
IR observations of a star-forming region in M 17 Felli, M., Stanga, R.	193	Neutrino-antineutrino annihilation around a collapsar Berezinsky, V.S., Prilutsky, O.F.	309
First observations with the scanning Fabry-Perot inter- ferometer CIGALE: the stellar wind bubble N 62 B in the Large Magellanic Cloud		Instruments, data processing, and computational methods	
Laval, A., Boulesteix, J., Georgelin, Y.P., Georgelin, Y.M., Marcelin, M. The O6.5f?p star HD 148937 and its interstellar environ-	199	High-resolution astronomical imaging by roll deconvol- ution of Space Telescope data Müller, M., Weigelt, G.	312
Leitherer, C., Chavarria-K., C.	208	The IRAM 30-m millimeter radio telescope on Pico Veleta, Spain	
VLA hydrogen and helium 76 α line observations of Sagittarius B2 Roelfsema, P.R., Goss, W.M., Whiteoak, J.B.,		Baars, J.W.M., Hooghoudt, B.G., Mezger, P.G., de Jonge, M.J.	319
Gardner, F.F., Pankonin, V.	219	A multichannel multicolour photometer for high time res- olution	
Herbig-Haro emission in two bipolar reflection nebulae Neckel, T., Staude, H.J., Sarcander, M., Birkle, K.	231	Barwig, H., Schoembs, R., Buckenmayer, C.	327
The Sun		Astronomical optics: zonal aberration correction. Labora- tory experiments and extrapolations to space- and ground- based observations	
Determination of velocity and magnetic fields from ob-		Artzner, G.	345
servational data in solar active regions Berton, R.	238	(RN) The feasibility of periodicity searches in gamma-ray astronomy Buccheri, R., Ozel, M.E., Sacco, B.	353
Analysis of solar eclipse data: spicule model in the middle chromosphere Cuny, Y.	243		
The quasi-linear relaxation and bremsstrahlung of thick target electron beams in solar flares		Abstracts of articles which have been published in A. & A. Suppl. Ser. 67, No. 3	
McClements, K.G.	255	Deep photometry of globular clusters. VI. E2 and E3 Gratton, R.G., Ortolani, S.	357
Observations of oscillatory phase-shifts with diode arrays $Staiger$, J .	263	0.6 GHz mapping of extended radio galaxies. I. Edge- brightened double sources	
Microwave emission of solar electron beams Stähli, M., Benz, A.O.	271	Jägers, W.J. Radial velocities of southern stars obtained with the	357
Semi-empirical models of a quiescent prominence Zhang, Q.Z., Fang, C.	277	photoelectric scanner CORAVEL. VI. 233 F to M type stars in and near the Small Magellanic Cloud. Comparison	;

with 80 spectrographic radial velocities of O to K type stars in this Galaxy		A survey of the neutral atomic hydrogen in M 33 Deul, E.R., van der Hulst, J.M.	360
Maurice, E., Andersen, J., Ardeberg, A., Bardin, C., Imbert, M., Lindgren, H., Martin, N., Mayor, M., Nordström, B., Prévot, L., Rebeirot, E., Rousseau, J.	358	Spectroscopic observations of genuine and misclassified planetary nebulae Sabbadin, F., Falomo, R., Ortolani, S.	360
Search for (globular) clusters in M31. IV. Caudidates in a 3° × 3° square field centred on M31 Battistini, P., Bonoli, F., Braccesi, A., Federici, L.,		Strömgren and H β photometry of early type stars in northern open clusters. I. NGC 7039, NGC 7063 Schneider, H.	361
Fusi Pecci, F., Marano, B., Börngen, F.	358	Quasar candidates in the field of SA 94. II. Objective-prism classification of the US objects	
VBLUW observations of Pleiades G and K dwarfs Van Leeuwen, F., Alphenaar, P., Meys, J.J.M.	359	Barbieri, C., Cristiani, S., Iovino, A., Nota, A. Anomalous Zeeman effect: moments and expansion coef-	361
Astrometric positions of comet Giacobini-Zinner in 1985 Barbieri, C., Kranjc, A., Scardia, M.	360	ficients Mathys, G., Stenflo, J.O.	361
•		• • • • • • • • • • • • • • • • • • • •	